

Table 1

P11-1:	Q Q R Q Q Q Q Q E Q Q
P11-2:	Q Q R F Q W Q F E Q Q
P11-3:	Q Q R F E W E F E Q Q
P11-4:	Q Q O F O W O F Q Q Q
P11-5:	Q Q R F O W O F E Q Q
P11-6:	Q Q E F E W E F E Q Q
P10-7:	Q Q O F O W O F O Q

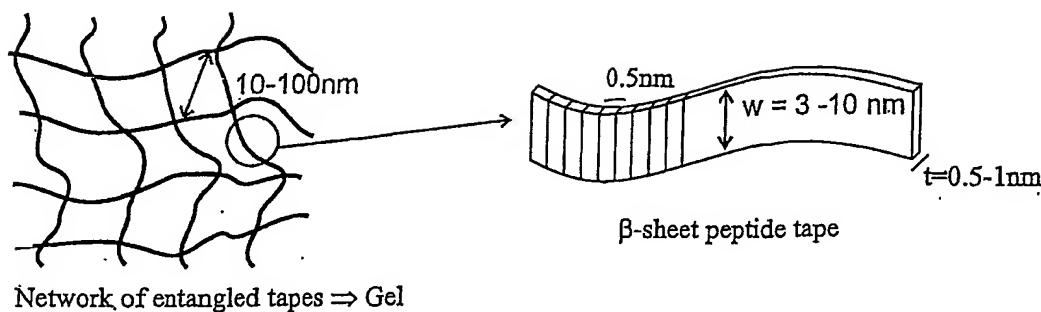
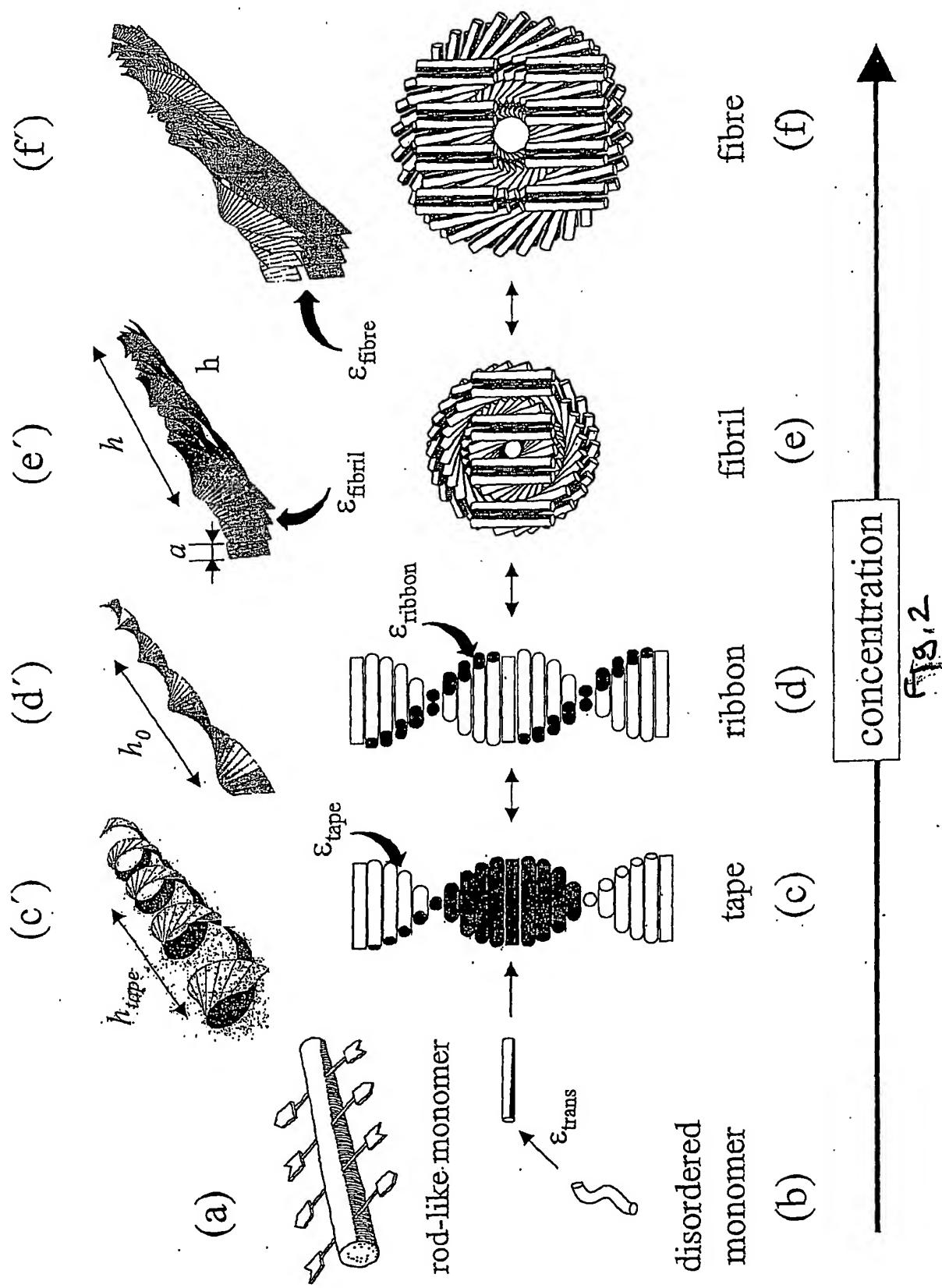
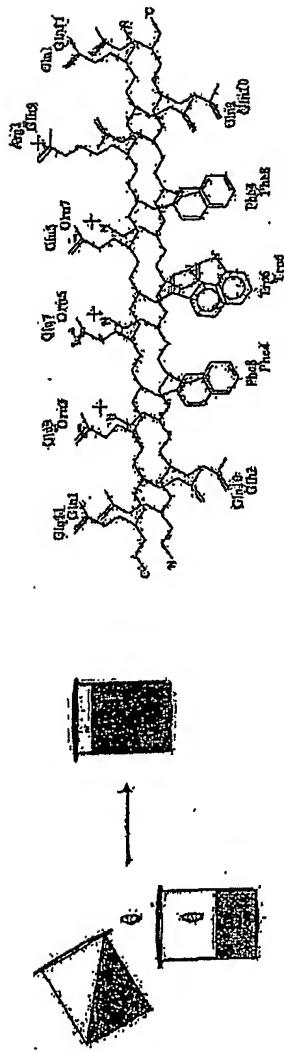


Fig. 1



### Peptides designed to form heteropolymeric tapes in water

Peptides can be designed to have complementary electric charges, such that, when mixed, tape self-assembly and subsequent gel formation occur spontaneously.

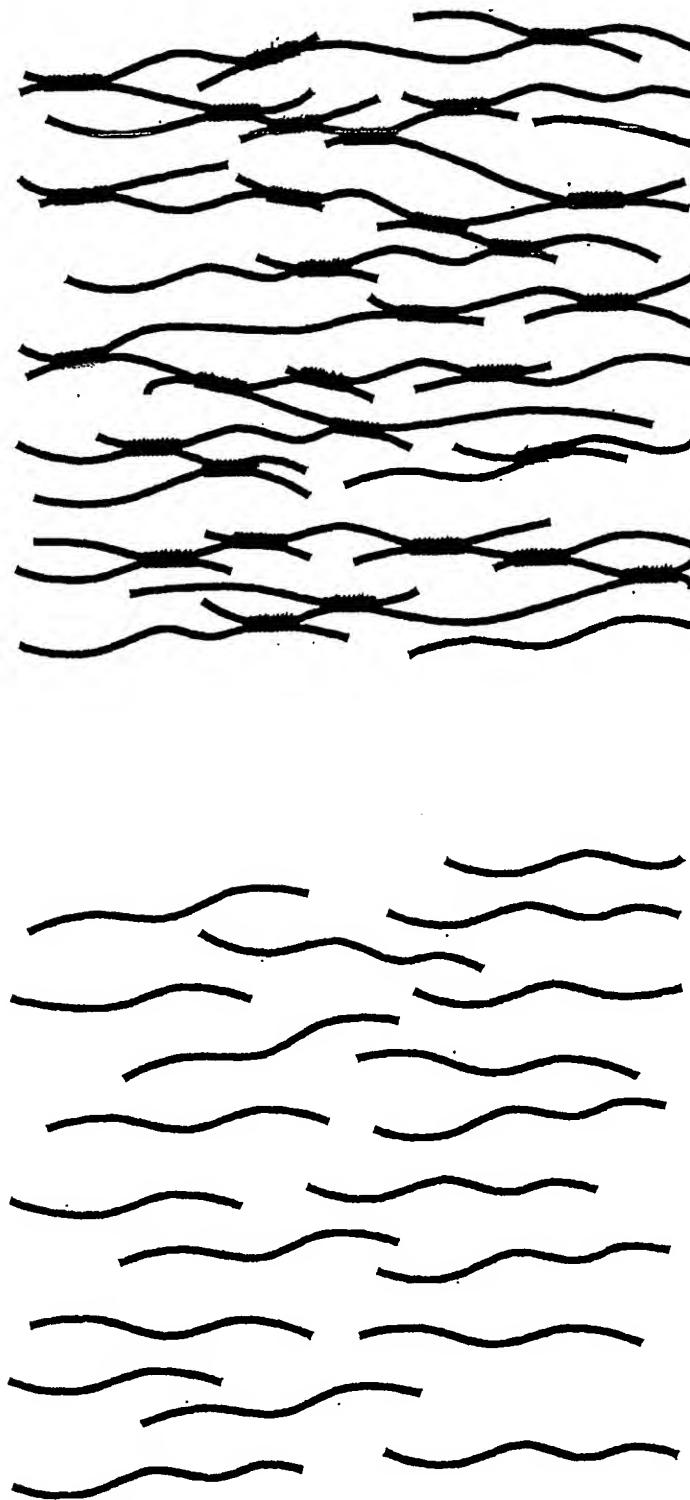


An anti-parallel  $\beta$ -sheet dimer of  
DN1-ORN2Q and DN1-2E peptides

A = DN1-ORN2Q  
B = DN1-2E

Fig. 3

## Liquid Crystalline Peptide Solutions and Gel Scaffolds

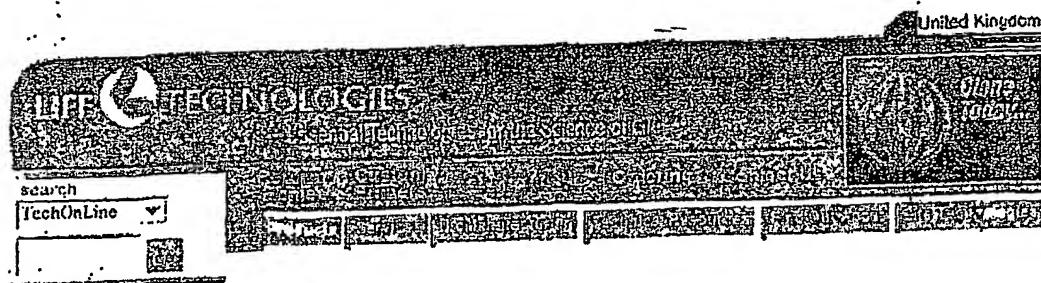


Nematic gel scaffold:  
the fibre-like junctions are made of  
entwined fibrils

Nematic fluid solution of  
oriented peptide fibrils

Fig. 14

STO3 Rec'd PCT/PTU



**RPMI Medium 1640 (1X), liquid (21870)  
without L-Glutamine**

RPMI (Roswell Park Memorial Institute) Media 1640 are enriched formulations with extensive applications for mammalian cells. They were originally formulated for suspension cultures or monolayer cultures of human leukemia cells.

Catalogue Number: 21870

COMPONENTS	Mole. Weight	Concentration (mg/L)	Molarity (mM)
<b>INORGANIC SALTS:</b>			
Calcium Nitrate-4H <sub>2</sub> O	236	100.00	0.424
Potassium Chloride	75	400.00	5.30
Magnesium Sulfate-7H <sub>2</sub> O	246	100.00	0.407
Sodium Chloride	58	6000.00	103.00
Sodium Bicarbonate	.84	2000.00	23.800
Sodium Phosphate Dibasic-7H <sub>2</sub> O	268	1512.00	5.63
<b>OTHER COMPONENTS:</b>			
Glucose	180	2000.00	11.10
Glutathione Reduced	307	1.00	0.0032
Phenol red	398	5.00	0.0125
<b>AMINO ACIDS:</b>			
L-Arginine	174	200.00	1.10
L-Asparagine	132	50.00	0.379
L-Aspartic Acid	133	20.00	0.150
L-Cystine 2HCl	313	65.00	0.208
L-Glutamic Acid	147	20.00	0.136
Glycine	75	10.00	0.133
L-Histidine	155	15.00	0.0967
L-Hydroxyproline	131	20.00	0.153
L-Isoleucine	131	50.00	0.382
L-Leucine	131	50.00	0.382
L-Lysine HCl	146	40.00	0.219
L-Methionine	149	15.00	0.101
L-Phenylalanine	165	15.00	0.0909

Fig. 5 | Table 2

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L-Proline	115	20.00	0.174
L-Serine	105	30.00	0.286
L-Threonine	119	20.00	0.168
L-Tryptophan	204	5.00	0.0245
L-Tyrosine 2Na	225	29.00	0.110
L-Valine	117	20.00	0.171
VITAMINS			
Biotin	244	0.2	0.008
D-Ca Pantothenate	477	0.25	0.0005
Choline Chloride	140	3.00	0.0214
Folic Acid	441	1.00	0.0022
I-Inositol	180	35.00	0.194
Niacinamide	122	1.00	0.0081
p-Aminobenzoic Acid (PABA)	137	1.00	0.0072
Pyridoxine HCl	206	1.00	0.0048
Riboflavin	376	0.20	0.0005
Thiamine HCl	337	1.00	0.0029
Vitamin B12	1355	0.005	0.00000369

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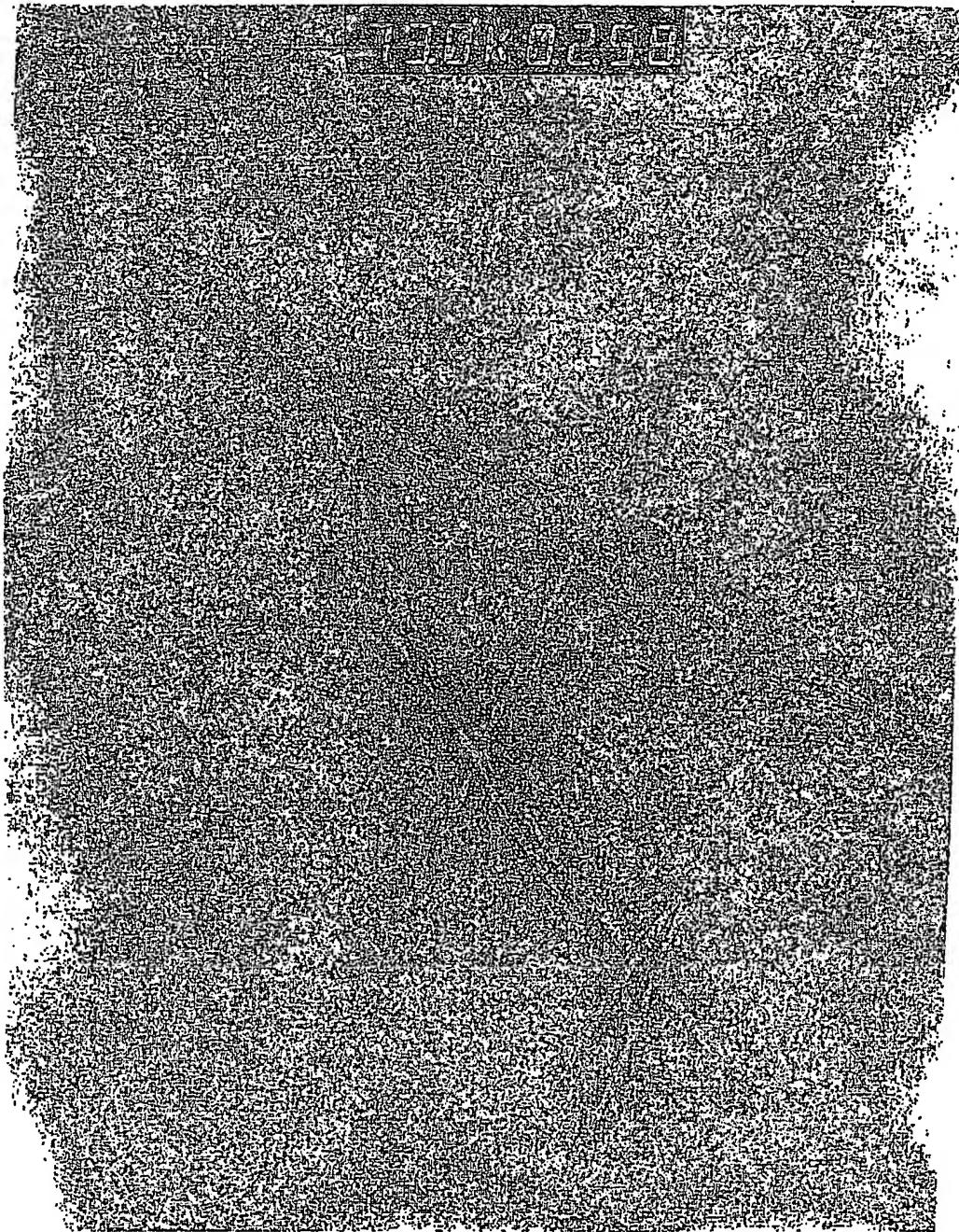


Fig. 6

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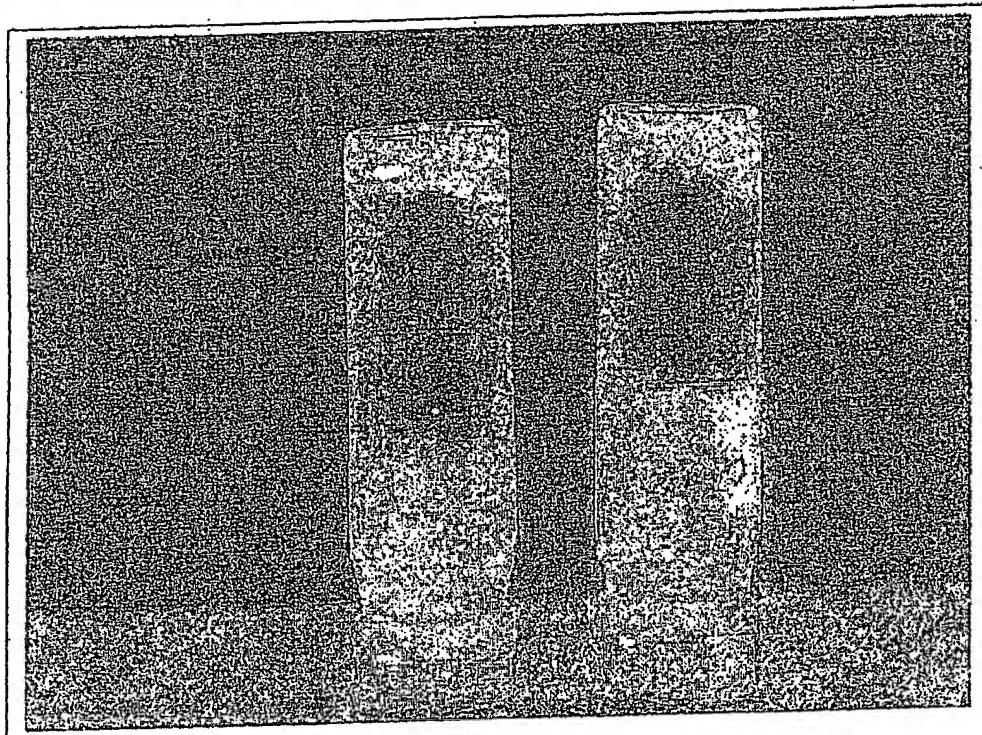


Fig 7

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Figure 8

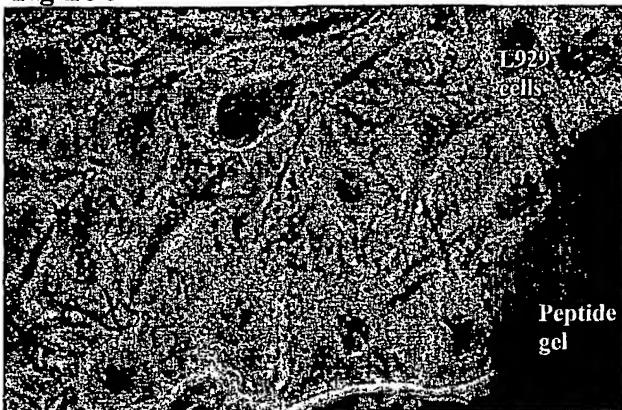
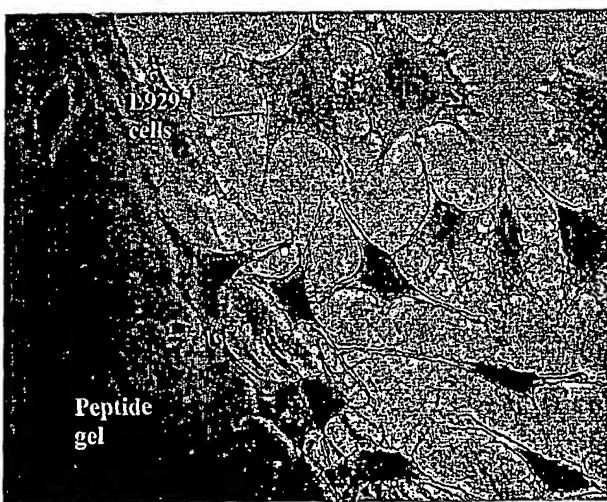


Figure 9



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